45-DAY EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DIVISION OF THE STATE ARCHITECT
(DSA-SS AND DSA-SS/CC)

REGARDING PROPOSED CHANGES TO
CALIFORNIA MECHANICAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4

The California Building Standards Code (California Code of Regulations, Title 24, Part 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12) is published in its entirety every three years and is applicable to all buildings for which an application for a building permit is made during the Code's effective period. Each triennial edition of the California Building Standards Code becomes effective 180 days after its publication.

These proposed regulations will make effective the 2012 edition of the Uniform Mechanical Code (UMC) as the 2013 edition California Mechanical Code (CMC), for application by DSA-SS to public elementary and secondary schools, community colleges, and state-owned or state-leased essential services buildings.

These proposed regulations will also make effective the 2012 edition of the UMC as the 2013 edition CMC, for application by DSA-SS/CC (Division of the State Architect – Structural Safety/Community Colleges) to community colleges, which a community college district may elect to use in lieu of standards promulgated by DSA-SS (refer to Education Code Section 81053).

Further, these proposed regulations will repeal the 2009 edition UMC articles adopted as the 2010 edition CMC.

LEGEND FOR EXPRESS TERMS

1. California amendment (CA) language being continued without modification is shown in *italics*.
2. New California amendment (CA) language is shown *underlined and in italics*.
3. Repealed California amendment (CA) language is shown in ~~*strikeout and in italics*~~.
4. Model code language that is modified: Model code text that is not adopted is shown in ~~strikeout and in normal font~~ and new California amendment language is shown *underlined and in italics*

EXPRESS TERMS

CALIFORNIA MECHANICAL CODE
DIVISION I

CHAPTER 1 – CALIFORNIA ADMINISTRATION

Continue Division I; Ch 1 (California Administration) of the 2010 triennial edition of the CMC for publication in the 2013 triennial edition of the CMC, with editorial amendments as shown below:

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt only those sections listed below	X	X	
DIVISION I – CALIFORNIA ADMINISTRATION			
1.1.0 General	X	X	
1.1.1 Title	X	X	
1.1.2 Purpose	X	X	
1.1.3 Scope	X	X	

1.1.3.1 Nonstate-Regulated Buildings, Structures, and Application	X	X	
1.1.3.2 State-Regulated Buildings, Structures, and Applications	X	X	DSA-SS adopts Item (11) of Article 1.1.3.2
1.1.4 Appendices	X	X	
1.1.5 Referenced Codes	X	X	
1.1.6 Non-Building Standards, Orders and Regulations	X	X	
1.1.7 Order of Precedence and Use	X	X	
1.1.7.1 Differences	X	X	
1.1.7.2 Specific Provisions	X	X	
1.1.7.2 Conflicts	X	X	
1.1.8 City, County, or City and County Amendments, Additions or Deletions			
1.1.9 Effective Date of This Code	X	X	
1.1.10 Availability of Codes	X	X	
1.1.11 Format	X	X	
1.1.12 Validity			
1.9.0 Division of the State Architect	X	X	
1.9.1 (Reserved for the DSA-AC)			
1.9.2 Division of the State Architect – Structural Safety	X	X	
1.9.2.1 Adopting Agency Identification	X	X	
1.9.2.2 DSA-SS	X		
1.9.2.3 Adopting Agency Identification		X	
1.9.2.4 DSA-SS/CC Division of the State Architect – Structural Safety/Community Colleges		X	
DIVISION II -ADMINISTRATION			

DIVISION I
CALIFORNIA ADMINISTRATION

1.1.0 General

1.1.1 Title. These regulations shall be known as the California Mechanical Code, may be cited as such and will be referred to herein as "this code." The California Mechanical Code is Part 4 of twelve parts of the official compilation and publication of the adoptions, amendment, and repeal of building regulations to the California Code of Regulations, Title 24, also referred to as the California Building Standards Code. This part incorporates by adoption the ~~2009~~ 2012 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.

1.1.2 Purpose. The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation, and energy conservation; safety to life and property from fire and other hazards attributed to the built environment; and to provide safety to fire fighters and emergency responders during emergency operations.

1.1.3 Scope. The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures throughout the State of California.

1.1.3.1 Nonstate-Regulated Buildings, Structures, and Applications. Except as modified by local ordinance pursuant to Section 1.1.8, the following standards in the California Code of Regulations,

Title 24, Parts 2, 2.5, 3, 4, 5, 6, 9, 10 and 11 shall apply to all occupancies and applications not regulated by a state agency.

1.1.3.2 State-Regulated Buildings, Structures, and Applications. The model code, state amendments to the model code, and/or state amendments where there are no relevant model code provisions shall apply to the following buildings, structures, and applications regulated by state agencies as referenced in the Matrix Adoption Tables and as specified in Section 1.2.0 through 1.14.0, except where modified by local ordinance pursuant to Section 1.1.8. When adopted by a state agency, the provisions of this code shall be enforced by the appropriate enforcing agency, but only to the extent of authority granted to such agency by the state legislature.

Note: See Preface to distinguish the model code provisions from the California provisions.

1. …
2. …
3. …
4. …
5. …
6. …
7. …
8. …
9. …
10. …
11. Public elementary and secondary schools, community college building~~,~~ and state-owned or state-leased essential service buildings regulated by the Division of the State Architect. See Section 1.9.2 for additional scope provisions.
12. …
13. …
14. …
15. …
16. …
17. …
18. …

1.1.4 Appendices. Provisions contained in the appendices of this code shall not apply unless specifically adopted by a state agency or adopted by a local enforcing agency in compliance with Health and Safety Code Section 18901 et. seq. for Building Standards Law, Health and Safety Code Section 17950 for State Housing Law and Health and Safety Code Section 13869.7 for Fire Protection Districts. See Section 1.1.8 of this code.

1.1.5 Referenced codes. The codes, standards and publications adopted and set forth in this code, including other codes, standards and publications referred to therein are, by title and date of publication, hereby adopted as standard reference documents of this code. When this code does not specifically cover any subject related to building design and construction, recognized architectural or engineering practices shall be employed. The National Fire Codes, standards, and the Fire Protection Handbook of the National Fire Protection Association are permitted to be used as authoritative guides in determining recognized fire prevention engineering practices.

1.1.6 NonBuilding standards, orders and regulations. Requirements contained in the Uniform Mechanical Code or in any other referenced standard, code or document, which are not building standards as defined in Health and Safety Code Section 18909, shall not be construed as part of the provisions of this code. For nonbuilding standards, orders, and regulations, see other titles of the California Code of Regulations.

1.1.7 Order of precedence and use.

1.1.7.1 Differences. In the event of any differences between these building standards and the standard reference documents, the text of these building standards shall govern.

1.1.7.2 Specific provisions. Where a specific provision varies from a general provision, the specific provision shall apply.

1.1.7.3 Conflicts. When the requirements of this code conflict with the requirements of any other part of the California Building Standards Code, Title 24, the most restrictive requirements shall prevail.

1.1.8 …

1.1.9 Effective date of this code. Only those standards approved by the California Building Standards Commission that are effective at the time an application for building permit is submitted shall apply to the plans and specifications for, and to the construction performed under, that permit. For the effective dates of the provisions contained in this code, see the History Note page of this code.

1.1.10 Availability of codes. At least one complete copy each of Titles 8, 19, 20, 24, and 25 with all revisions shall be maintained in the office of the building official responsible for the administration and enforcement of this code. Each state department concerned and each city, county or city and county shall have an up-to-date copy of the code available for public inspection, See Health and Safety Code Section 18942(d)(1) and (2).

1.1.11 Format. This part fundamentally adopts the Uniform Mechanical Code by reference on a chapter-by-chapter basis. Such adoption is reflected in the Matrix Adoption Table of each chapter of this part. When the Matrix Adoption Tables make no reference to a specific chapter of the International Building Code such chapter of the International Building Code is not adopted as a portion of this code.

1.1.12 Validity. If any chapter, section, subsection, sentence, clause or phrase of this code is for any reason held to be unconstitutional, contrary to statute, exceeding the authority of the state as stipulated by statutes or otherwise inoperative, such decision shall not affect the validity of the remaining portion of this code.

1.9.0 Division of the State Architect.

1.9.1 (Reserved for the Division of the State Architect – Access Compliance.

1.9.2 Division of the State Architect - Structural Safety.

1.9.2.1 Adopting Agency Identification. The provisions of this code applicable to buildings identified in this Subsection 1.9.2 will be identified in the Matrix Adoption Tables under the acronym DSA SS.

1.9.2.2 DSA-SS Division of the State Architect – Structural Safety.

Application - Public elementary and secondary schools, community college buildings, and state-owned or state-leased essential services buildings.

Enforcing Agency - Division of the State Architect – Structural Safety (DSA-SS).

The Division of the State Architect has been delegated the responsibility and authority by the Department of General Services to review and approve the design and oversee the construction of public elementary and secondary schools, community colleges, and state-owned or state-leased essential services buildings.

Authority Cited - Education Code Section 17310 and 81142, and Health & Safety Code Section 16022.

Reference - Education Code Sections 17280 through 17317 and 81130 through 81147, and Health & Safety Code Sections 16000 through 16023.

1.9.2.3 Adopting Agency Identification.

The provision of this code applicable to buildings identified in this Subsection 1.9.2.2 will be identified in the Matrix Adoption Tables under the acronym DSA SS/CC.

1.9.2.4. DSA-SS/CC Division of the State Architect – Structural Safety/Community Colleges.

Application - Community Colleges.

The Division of the State Architect has been delegated the authority by the Department of General Services to promulgate alternate building standards for application to community colleges, which a community college may elect to use in lieu of standards promulgated by DSA-SS in accordance with Section ~~1.9.2.1.~~ 1.9.2.2. Refer to Title 24, Part 2, Section ~~1.9.2.2~~ 1.9.2.4.

Enforcing Agency - Division of the State Architect – Structural Safety/Community Colleges (DSA-SS/CC)

The Division of the State Architect has been delegated the authority by the Department of General Services to review and approve the design and oversee construction of community colleges electing to use the alternative building standards as provided in this section.

Authority Cited - Education Code Section 81053.

Reference - Education Code Sections 81052, 81053, and 81130 through 81147.

DIVISION II
ADMINISTRATION

CALIFORNIA MECHANICAL CODE
CHAPTER 2 - DEFINITIONS

Repeal Ch 2 (Definitions) of the 2009 UMC.
Adopt Ch 2 (Definitions) of the 2012 UMC with amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter as amended (amended sections listed below)	X	X	
209.0 Galvanized Steel	X	X	

209 –G

GALVANIZED STEEL – A steel that has been coated with a thin layer of zinc for corrosion protection; *conforming to the requirements of ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coat (Galvanized) or Zinc-Iron Alloy-Coat (Galvanized) by the Hot Dip Process*.

CALIFORNIA MECHANICAL CODE
CHAPTER 3 - GENERAL REQUIREMENTS

Repeal Ch 3 (General Requirements) of the 2009 edition UMC.
Adopt Ch 3 (General Requirements) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE
CHAPTER 4 - VENTILATION AIR SUPPLY

Repeal Ch 4 (Ventilation Air Supply) of the 2009 edition UMC.
Adopt Ch 4 (Ventilation Air Supply) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE
CHAPTER 5 - EXHAUST SYSTEMS

Repeal Ch 5 (Exhaust Systems) of the 2009 edition UMC.
Adopt Ch 5 (Exhaust Systems) of the 2012 edition UMC withut amendment for publication in the 2013 triennial editon of the CMC. Existing CA amendments in Section 506.2 are repealed.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	
Adopt Entire Chapter as amended (amended sections listed below)	~~X~~	~~X~~	
~~506.2 Construction~~	~~X~~	~~X~~	

506.2 Construction. Ducts used for conveying products shall be airtight construction as approved by the Authority Having Jurisdiction, and shall not have openings other than those required for operation and maintenance of the system. Ducts constructed of steel shall comply with Table 506.2(1) or Table 506.2(2).

Exceptions:

(1) Class 1 product-conveying ducts that operate at less than four (4) inches (102 mm) water column (996 Pa) negative pressure and convey noncorrosive, nonflammable, and nonexplosive materials at temperatures not exceeding 250°F (121°C) may be constructed in accordance ~~*ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard.*~~

(2) Ducts used in central vacuuming systems within a dwelling unit shall be constructed of materials in accordance with the applicable standards referenced in Chapter 17. Penetrations of fire-resistive walls, or floor-ceiling or roof-ceiling assemblies shall comply with the Building Code. Copper or ferrous pipes or conduit extending from within the separation between a garage and dwelling unit to the central vacuum unit may be used.

The use of rectangular ducts conveying particulates shall be subject to approval of the building official. The design of rectangular ducts shall consider the adhesiveness and buildup of products being conveyed within the duct.

Aluminum construction shall be permitted to be used in Class 1 duct systems. The thickness of aluminum ducts shall be at least two Brown and Sharpe gauges thicker than the gauges required for steel ducts set forth in Tables 506.2(1) and Table 506.2(2).

CALIFORNIA MECHANICAL CODE
CHAPTER 6 - DUCT SYSTEMS

Repeal Ch 6 (Duct Systems) of the 2009 edition UMC.
Adopt Ch 6 (Duct systems) of the 2012 edition UMC with amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter as amended (amended sections listed below)	X	X	
601.3 (The performance criteria …)	X	X	
~~602.1 General~~	~~X~~	~~X~~	
~~602.3 Factory-Made Air Ducts~~	~~X~~	~~X~~	
~~602.4 Joints and Seams of Ducts~~	~~X~~	~~X~~	
~~602.5 Metal~~	~~X~~	~~X~~	
~~602.6 Tin~~	~~X~~	~~X~~	
~~603.0 Quality of Material~~	~~X~~	~~X~~	
~~604.2 Metal Ducts~~	~~X~~	~~X~~	
~~604.2.1 Horizontal Round Ducts~~	~~X~~	~~X~~	
~~604.5 Support of Ducts~~	~~X~~	~~X~~	
~~605.0 General~~	~~X~~	~~X~~	

601.0 General.

601.3 The performance criteria and requirements herein contemplate a duct that is a structural assembly having the capacity to support occupant health and safety while minimizing its own contribution to property damage under emergency conditions. Ducts can supply fresh or treated air in support of life and health, can convey products of combustion away from a fire zone, can maintain a pressure differential that facilitates evacuation and reduces the spread of fire and smoke, and can facilitate firefighter access to a fire source.

602.0 Material

602.1 General. Supply air, return air, and outside air for heating, cooling, or evaporative cooling systems shall be conducted through duct systems constructed of metal in accordance with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard*~~. Rectangular ducts in excess of 2 inches (51 mm) w.g. shall comply with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard.*~~ Ducts, plenums, and fittings shall be permitted to be constructed of concrete, clay, or ceramics when installed in the ground or in a concrete slab, provided the joints are tightly sealed.

~~*In other than Group A, E H, I, L, and R occupancies, high-rise buildings, and other applications listed in Section 1.11.0 regulated by the Office of the State Fire Marshal,*~~ corridors shall not be used to convey air to or from rooms where the corridor is required be of fire-resistive construction in accordance with the Building Code. ~~*In Group A, E H, I, L, and R occupancies, high-rise buildings, and other applications listed in Section 1.11.0 regulated by the Office of the State Fire Marshal, corridors shall not be used to convey air to or from rooms except where permitted in accordance with Section 1018.5 of the California Building Code.*~~

…

602.3 Factory-Made Air Ducts. Factory-made air ducts shall be approved for the use intended or shall be in accordance with the requirements of the referenced standard for air ducts in Chapter 17. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other identification indicating compliance with the referenced standard for air ducts in Chapter 17 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing. Flexible aire connectors are not permitted.

602.4 Joints and Seams of Ducts. Joints of duct systems shall be made substantially air-tight by means of tapes, mastics, gasketing, or other means.

Crimp joints for round ducts shall have a contact lap of at not less than 1-1/2 inches (38 mm) and shall be mechanically fastened by means of not less than three sheet-metal screws equally spaced around the joint, or an equivalent fastening method.

Joints and seams for 0.016 of an inch (0.41 mm) (No. 28 gauge) and 0.013 of an of an inch (0.33 mm) (No. 30 gauge) residential rectangular ducts shall comply with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard*~~ for 0.019 of an inch (0.48 mm) (No. 26 gauge) material.

Joints and seams for rectangular duct systems shall comply with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard.*~~

Joints and seams for flat oval ducts and round ducts in other than single-dwelling units shall comply with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible *or* ~~*another approved duct construction standard.*~~

Joints and seams and reinforcements for factory-made air ducts and plenums shall comply with the conditions of prior approval in accordance with the installation instructions that shall accompany the product. Closure systems for rigid air ducts and plenums shall be listed in accordance with UL 181A, ~~*Standard for Closure Systems for Use with Rigid Air Ducts and Air Connectors.*~~ Closure systems for flexible air ducts shall be listed in accordance with UL 181B, ~~*Standard for Closure Systems for Use with Flexible Air Ducts and Air Connectors.*~~

602.5 Metal. Ducts, plenums, or fittings of metal shall comply with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible or duct systems in accordance with UL 181 ~~*for Factory Made Air Ducts and Air Connectors.*~~

602.6 Tin. Existing tin ducts shall be permitted to be used where cooling coils are added to a heating system, provided the first 10 feet (3048 mm) of the duct or plenum measured from the cooling coil discharge are constructed of metal of the gauge thickness in accordance with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible, or other approved duct construction standard or are of approved material and construction. Tin ducts completely enclosed in inaccessible concealed areas need not be replaced. Accessible ducts shall be insulated in accordance with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard.*~~ For the purpose of this subsection, ducts shall be considered accessible where the access space is 30 inches (762 mm) or greater in height.

603.0 Quality of Material. Galvanized steel shall be of lock-forming quality with a minimum coating of 1.25 ounces of zinc per square foot (0.04 kg/m^3) conforming to the requirements of ~~*ASTM A653/A653M-07 Standard Specification for Steel Sheet, Zinc-Coat (Galvanized) or Zinc-Iron Alloy-Coat (Galvanized) by the Hot Dip Process.*~~

~~604.0~~ 603.0 Installation of Ducts.
~~604.2~~ 603.2 Metal Ducts. Ducts shall be securely fastened in place at each change of direction in accordance with ~~*the ANSI/*~~SMACNA ~~*006-*~~2006 HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard*~~. Vertical rectangular ducts and vertical round ducts shall be supported in accordance with *the ANSI/*SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard*~~. Riser ducts shall be held in place by means of metal straps or angles and channels to secure the riser to the structure.

Metal ducts shall be installed with not less than 4 inches (102 mm) separation from earth. Metal ducts where installed in or under a concrete slab shall be encased in not less than 2 inches (51 mm) of concrete.

Ducts shall be installed in a building with clearance that will retain the full thickness of fireproofing on structural members.

Supports for rectangular ducts shall comply with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard*~~, where suspended from above, shall be installed on two opposite sides of each duct and shall be riveted, bolted, or metal screwed to each side of the duct at intervals specified.

~~604.2.1~~ 603.2.1 Horizontal Round Ducts. Horizontal round ducts not more than 40 inches (1016 mm) in diameter where suspended from above shall be supported in accordance with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard*~~ with one hanger per interval, installed in accordance with Section 603.2.2 through Section 603.2.5.

~~604.5~~ 603.5 Support of Ducts. Installers shall provide the manufacturer's field fabrication and installation instructions.

In the absence of specific supporting materials and spacing, approved factory-made air ducts shall be permitted to be installed in accordance with ~~*the ANSI/*~~SMACNA ~~*006-2006*~~ HVAC Duct Construction Standards - Metal and Flexible ~~*or another approved duct construction standard*~~.

~~605.0~~ 604.0 Insulation of Ducts.
604.1 General. Supply-air ducts, return-air ducts and plenums of a heating or cooling system shall be insulated to achieve the minimum thermal (R) value in accordance with ~~*Tables 6-6A and B.*~~
...

CALIFORNIA MECHANICAL CODE
CHAPTER 7 - COMBUSTION AIR

Repeal Ch 7 (Combustion Air) of the 2009 edition UMC.
Adopt Ch 7 (Combustion Air) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE
CHAPTER 8 - CHIMNEYS AND VENTS

Repeal Ch 8 (Chimneys and Vents) of the 2009 edition UMC.
Adopt Ch 8 (Chimneys and Vents) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNAI MECHANICAL CODE
CHAPTER 9 - INSTALLATION OF SPECIFIC APPLIANCES

Repeal Ch 9 (Installation of Specific Equipment) of the 2009 edition UMC.
Adopt Ch 9 (Installation of Specific Appliances) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE
CHAPTER 10 - STEAM AND HOT WATER BOILERS

Repeal Ch 10 (Steam and Hot Water Boilers) of the 2009 edition UMC.
Adopt Ch 10 (Steam and Hot Water Boilers) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE
CHAPTER 11 - REFRIGERATION

Repeal Ch 11 (Refrigeration) of the 2009 edition UMC.
Adopt Ch 11 (Refrigeration) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE
CHAPTER 12 - HYDRONICS

Repeal Ch 12 (Hydronics) of the 2009 edition UMC.
Adopt Ch 12 (Hydronics) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE
CHAPTER 13 - FUEL GAS PIPING

Repeal Ch 13 (Fuel Gas Piping) of the 2009 edition UMC.
Adopt Ch 13 (Fuel Gas Piping) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE\
CHAPTER 14 - PROCESS PIPING

Repeal Ch 14 (Process Piping) of the 2009 edition UMC.
Adopt Ch 14 (Process Piping) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE
CHAPTER 15 - SOLAR SYSTEMS

Repeal Ch 15 (Solar Systems) of the 2009 edition UMC.
Adopt Ch 15 (Solar Systems) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE
CHAPTER 16 - STATIONARY POWER PLANTS

Repeal Ch 16 (Stationary Fuel Cell Power Plants) of the 2009 edition UMC.
Adopt Ch 16 (Stationary Power Plants) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA MECHANICAL CODE
CHAPTER 17 – STANDARDS

Repeal Ch 17 (Standards) of the 2009 edition UMC.
Adopt Ch 17 (Standards) 2012 edition UMC with amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter as amended (amended sections listed below)	X	X	
Table ~~17-1~~ 1701.0 Standards for Equipment and Materials	X	X	

~~CHAPTER 17 STANDARDS~~ TABLE ~~17-1~~ 1701.0 - STANDARDS FOR EQUIPMENT AND MATERIALS

STANDARD NUMBER	STANDARD TITLE	APPLICATION	REFERENCE SECTION
~~*ANSI/SMACNA-006-2006*~~	~~*HVAC Duct Construction Standards Metal and Flexible 3rd edition*~~	~~*Ducts, Metal and Flexible*~~	~~*506.2, 602.1, 602.4, 602.5, 602.6, 604.2 604.5 and 605.0*~~

APPENDIX A - UMC STANDARDS NO. 6-2

DSA is not proposing to adopt Appendix A (UMC Standards No. 6-2) 2012 edition UMC for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX B – PROCEDURES TO BE FOLLOWED TO PLACE GAS EQUIPMENT INTO OPERATION

DSA is not proposing to adopt Appendix B (Procedures To Be Followed to Place Gas Equipment into Operation) 2012 edition UMC for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX C – INSTALLATION AND TESTING OF OIL (LIQUID) FUEL-FIRED EQUIPMENT

DSA is not proposing to adopt Appendix C (Installation and Testing of Oil (Liquid) Fuel –Fired Equipment) 2012 edition UMC for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX D - UNIT CONVERSION TABLES

Repeal Appendix D (Unit Conversion Tables) of the 2009 edition UMC.
Adopt Appendix D (Unit Conversion Tables) of the 2012 edition UMC without amendment for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

APPENDIX E – GREEN MECHANICAL CODE SUPPLEMENT

DSA is not proposing to adopt Appendix E (Green Mechanical Code Supplement) 2012 edition UMC for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX F – EXAMPLES OF VENTING SYSTEM SIZING

DSA is not proposing to adopt Appendix F (Examples of Venting System Sizing) 2012 edition UMC for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX G – EXAMPLE CALCULATION OF OUTDOOR AIR RATE

DSA is not proposing to adopt Appendix G (Example Calculation of Outdoor Air Rate) Fuel –Fired Equipment) 2012 edition UMC for publication in the 2013 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

Notation for DSA-SS
Authority: Education Code § 17310 and 81142, and H&S Code §16022.
Reference(s): Education Code §§ 17280 through 17317, and 81130 through 81147, and H&S Code §§16000 through 16023.

Notation for DSA-SS/CC
Authority: Education Code § 81053.
Reference(s): Education Code §§ 81052, 81053, and 81130 through 81147.